AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended): Receiver device for optical data signals, in particular optical data signals in the Gb/s range, comprising:

an opto-electrical conversion unit, which converts an optical signal, that is received from a source external to said receiver device, to a converted electrical data signal;

a frequency multiplicator unit, ~~for~~which ~~frequency-multiplying~~frequency-multiplies the converted electrical data signal;; and

a clock recovery unit,

wherein the frequency multiplicator unit performs a frequency multiplication by a factor of n, with n being a natural number larger than 2,

wherein the receiver device comprises a frequency filter for the spectral power of the electrical data signal, and

wherein the frequency filter transmits around B/n, wherein B is the bit rate of the electrical data signal.

2. (canceled):

3. (original): Receiver device according to claim 1, wherein n=4.

4. (currently amended): Receiver device according to claim 1, wherein the optical data signals are ~~Gb/s signals, in particular~~ 10 Gb/s signals or 40 Gb/s signals.

5. (original): Receiver device according to claim 1, wherein the clock recovery unit comprises a phase locked loop circuit.

6. (original): Receiver device according to claim 1, wherein the clock recovery unit comprises a filter clock recovery circuit.

7. (original): Data transmission system comprising an optical transmission link, in particular an optical fiber system, wherein the optical transmission link has a significant dispersion, and a receiver device according to claim 1.

8. (currently amended): A computer-readable medium encoded with a computer program~~Computer software~~ for generating a clock signal out of an electrical data signal that is received by a receiver, in particular out of an electrical signal in the Gb/s range, wherein the electrical data signal is subjected to a frequency multiplication by a factor of n, with n being a natural number larger than 2, in particular n=4,

wherein the electrical data signal is filtered by a frequency filter for the spectral power of the electrical data signal,

wherein the frequency filter transmits around B/n, wherein B is a bit rate of the electrical data signal, and

wherein the electrical data signal is converted from an optical signal that is received from a source external to said receiver device.